

#### ABSTRACT OF THE DISCLOSURE

A magnetic bearing device is provided which is capable of reducing vibration, as well as electric and magnetic noise, generated from a pump device while making it possible to control the position of a rotor at high speed and high power. Also provided is a pump device having the magnetic bearing device mounted thereto. Switching is made between a high voltage mode in which an electromagnet coil is supplied with electric power from a high voltage power source and a low voltage mode in which the electromagnet coil is supplied with electric power from a low voltage power source. The switching is made based on whether or not a current change speed is below a reference current change speed. When the current change speed is equal to or larger than the reference current change speed, the device is switched to the high voltage mode. When the current change speed is less than the reference current change speed, the device is switched to the low voltage mode.